

PTO-1542  
(4-85)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

8-22

# ONLINE SEARCH REQUEST FORM

USER CHANG

SERIAL NUMBER 02/827187

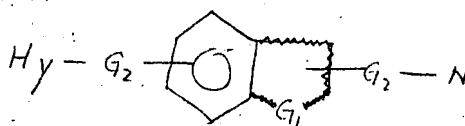
ART UNIT 103

PHONE 308-4702

DATE 8/3/92

Please give a detailed statement of requirements. Describe as specifically as possible the subject matter to be searched. Define any terms that may have special meaning. Give examples or relevant citations, authors, or keywords, if known.

You may include a copy of the broadest and or relevant claim(s).



in a chain

USPAT. & TM OFF  
7/22/92 3:41 PM

H<sub>y</sub> = HIQ, MCY

G<sub>1</sub> = O/S/N

G<sub>2</sub> = (O-3)CH

## STAFF USE ONLY

COMPLETED 8/4/92

SEARCHER Kathleen Fuller

ONLINE TIME 31

(in minutes)

NO. OF DATABASES 1

TOTAL TIME 31

(in minutes)

NO. OF DATABASES 1

## SYSTEMS

- ☒ CAS ONLINE
- ☐ DARC/QUESTEL
- ☐ DIALOG
- ☐ SDC
- ☐ OTHER

=> file reg

FILE 'REGISTRY' ENTERED AT 13:22:05 ON 04 AUG 92  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
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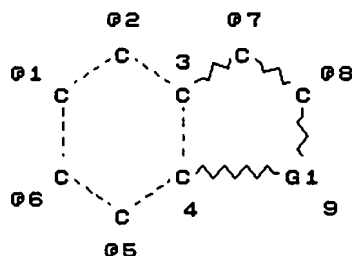
Chang  
827187

STRUCTURE FILE UPDATES: 31 JUL 92 HIGHEST RN 142757-69-5  
DICTIONARY FILE UPDATES: 3 AUG 92 HIGHEST RN 142757-69-5

=> d que 16

L1

STR



H<sub>11</sub>-G<sub>2</sub>-C  
10 11 012

H<sub>11</sub> 013 G<sub>3</sub> 014 G<sub>5</sub> 015 N 019

C-G<sub>2</sub>-N  
016 17 18

VAR G1=O/S/N

REP G2=(0-2) CH 1-3

VAR G3=13/12

VAR G5=19/16

VPA 14-1/2/5/6 U G<sub>3</sub>=14 = 13 or 12

VPA 15-7/8 U G<sub>5</sub>=15 = 19 or 16

NODE ATTRIBUTES:

NSPEC	IS	C	AT	18
NSPEC	IS	C	AT	19
GGCAT	IS	MCY	AT	10
GGCAT	IS	HIC	AT	10
GGCAT	IS	MCY	AT	13
GGCAT	IS	HIC	AT	13

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 19

L2 SCR 1995 AND 1840

L3 SCR 52 OR 72

L4 SCR 1841 = 4 rings

L6 0 SEA SSS FUL L1 AND L2 AND L3 NOT L4

=> file home

FILE 'HOME' ENTERED AT 13:23:23 ON 04 AUG 92

Ok batch result  
CC 8271/B

=> log y  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE  
ENTRY  
1.70

TOTAL  
SESSION  
34.15

SINCE FILE  
ENTRY  
-0.38

TOTAL  
SESSION  
-0.38

STN INTERNATIONAL LOGOFF AT 08:25:40 ON 13 AUG 92

customer pad #107  
SERVICE:  
COM

Your question

EP P 313397

Family members

CC	PUBDAT	KD	DOC.NO.	CC	PR.DAT	AKP	YY	PR.	NO.
AU	890427	A1	24181/88	GB	871023	PA	87	8724912	
AU	901206	B2	604165						
CN	890830	A	1035113						
DD	901003	A5	283140						
DK	881021	A0	5865/88						
DK	890424	A	5865/88						
EP	890426	A1	313397						
DES	AT	BE	CH	DE	ES	FR	GB	GR	IT
	LI	LU	NL	SE					
FI	881021	A0	884879						
FI	890424	A	884879						
GB	871125	A0	8724912						
HU	891228	A2	50163						
HU	910228	B	202230						
IL	890630	A0	88122						
JP	890608	A2	1146882						
MC	891123	A	1983						
NZ	910925	A	226671						
PL	890807	A1	275423						

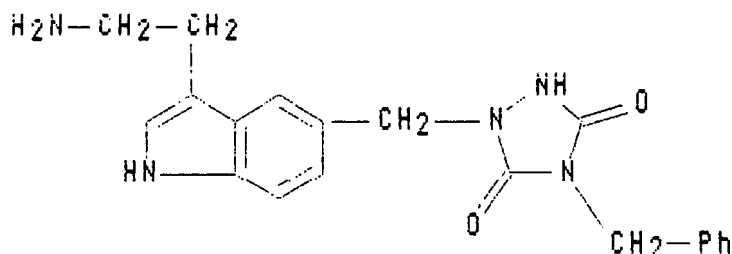
Please turn over to next page

ZA 900627 A 8807900

18 MEMBERS 14 COUNTRIES

Your input please

V



0 REFERENCES IN FILE CA (1967 TO DATE)

=> fil ca  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
32.30	32.45

FULL ESTIMATED COST

FILE 'CA' ENTERED AT 08:25:02 ON 13 AUG 92  
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FILE COVERS 1967 - 8 Aug 92 (920808/ED) VOL 117 ISS 06.  
For OFFLINE Prints or Displays, use the ABS or ALL formats to obtain abstract graphic structures. The AB format DOES NOT display structure diagrams.

=> s 15  
L6 1 L5

=> d bib ab

L6 ANSWER 1 OF 1 COPYRIGHT 1992 ACS  
AN CA111(25):232814g  
TI Preparation and formulation of heterocyclic compounds for use as  
AU therapeutic agents particularly in treatment of migraine  
AU Robertson, Alan Duncan; Martin, Graeme Richard; Buckingham, Janet  
CS Susan  
UK Wellcome Foundation Ltd.  
SO Eur. Pat. Appl. 37 pp. 1989  
DS 313397 A1 26 Apr 1989  
AI R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
IC EP 88-309943 21 Oct 1988  
IC GB 87-24912 23 Oct 1987  
IC ICM C07D403-06  
IC ICS C07D413-06; C07D405-14; C07D409-14; A61K031-40; A61K031-41;  
A61K031-415; A61K031-42  
SC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))  
SU 1, 63  
DT P  
CO EPXXDW  
PY 1989  
LA Eng  
AB Title compds. I (R, R1, R2 = H, C1-4 alkyl; R3, R4 = H, (un)substituted C1-6 alkyl, C1-6 cycloalkyl, (un)substituted C1-6 aryl, (un)substituted PhCH2, provided R3 .noteq. (un)substituted PhCH2 where R4 = H; W = heterocycly; X = (un)substituted aryl, heteroaryl, xanthenyl, or dibenzofuranyl; m = 0-2; n = 0-3) salts and solvates thereof, are prepd. (-)-4'-[2-[4-(4-Nitrobenzyl)-2,5-dioxoimidazolidinyl]ethyl]acetanilide (prepn. given) was added to HCHO in MeOH, NaBH3CN and AcOH in MeOH, the mixt. was stirred for 2.5 h, satd. aq. K2CO3 was added to give (-)-I [X(CH2)nW(CH2)m = [2-[5-[1-[2-(4-acetamidophenyl)ethyl]-2,5-dioxoimidazolidin-4-ylmethyl]; R, R1, R2 = H; R3, R4 = Me]. Similarly prepd. was (-)-I-2-[5-(1-benzyl-3-methyl-2-oxoimidazolidin-4-ylmethyl)-1H-indol-3-yl]ethylamine maleate (II). In test for activity as agonist of 5-HT1-like receptor mediating smooth muscle contraction, II was the most active. Numerous formulations contg. I are presented.

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=> INTERPRET LOGIC EXPRESSION, QUERY NAME, OR (END):13
INTERPRET TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT: sss
INTERPRET SUBSET OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET: subset
INTERPRET SUBSET L# OR (END):12
FULL SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END): full
FULL SUBSET SEARCH INITIATED 8:24:24
100.0% PROCESSED 87 TO ITERATE
SEARCH TIME: 00.00.07 87 ITERATIONS
2 ANSWERS

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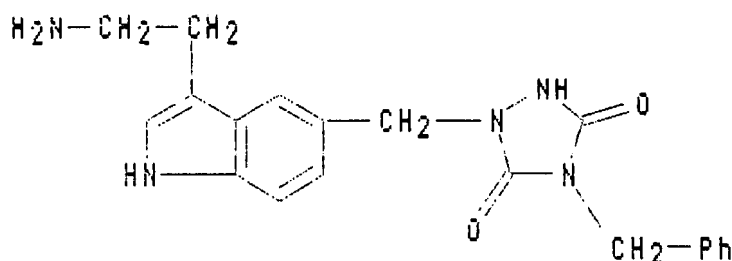
L5 2 SEA SUB=L2 SSS FUL L3

=> d 1-2 sub can

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L5 ANSWER 1 OF 2 COPYRIGHT 1992 ACS
RN 123945-16-4 REGISTRY
CN 1,2,4-Triazolidine-3,5-dione, 1-[[3-(2-aminoethyl)-1H-indol-5-
   yl]methyl]-4-(phenylmethyl)-, (Z)-2-butenedioate (9CI) (CA INDEX
MF C20 H21 N5 O2 . x C4 H4 O4
SR CA
LC CA
CM 1
CRN 123945-15-3
CMF C20 H21 N5 O2

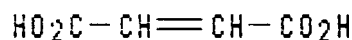
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CM 2
CRN 110-16-7
CMF C4 H4 O4
CDES 2:2

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1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(25):232814g

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L5 ANSWER 2 OF 2 COPYRIGHT 1992 ACS
RN 123945-15-3 REGISTRY
CN 1,2,4-Triazolidine-3,5-dione, 1-[[3-(2-aminoethyl)-1H-indol-5-
   yl]methyl]-4-(phenylmethyl)-, (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H21 N5 O2
CI COM
SR CA

```

=>d 13 bib ab

LI ANSWER 1 OF 1 COPYRIGHT 1992 ACS  
AN CA75(11):76880e  
TI Indole derivatives as nonnutritive sweetners  
AU Kornfeld, Edmund C.  
CS Lilly, Eli, and Co.  
SO S. African: 32 pp.  
PI ZA 6904486 24 Dec 1970  
PRAI US 5 Jul 1968  
SC 28 (Heterocyclic Compounds (More Than One Hetero Atom))  
DT P  
CO SFXHAB  
PY 1970  
LA Unavailable  
AB 3-(Diethylaminomethyl)-6-chloroindole (8 g), 7.5 g ethyl  
alpha.-acetamido-alpha.-cyanoacetate, and 6.5 g powd. KOH in 35 ml  
toluene was refluxed for 1 hr under N to form ethyl

U  
dl-N-acetyl-.alpha.-cyano-.alpha.-carbethoxy-6-chlorotryptamine (I).  
AlCl<sub>3</sub> (2.8 g) in THF was added to a stirred suspension of 4.5 g NaN<sub>3</sub>  
in THF the mixt. refluxed 1 hr and cooled to 25 degree, 6.94 g I  
added, and the mixt. refluxed 24 hr to form dl-N-acetyl-.alpha.-  
carbethoxy-.alpha.-5-tetrazolyl-6-chlorotryptamine (II). II (7.3 g)  
in NaOH was refluxed 3 hr, then decarboxylated by heating in H<sub>2</sub>O for  
2 hr to form dl-N-acetyl-.alpha.-5-tetrazolyl-6-chlorotryptamine  
(III). III (2 g) was refluxed with 2 g NaOH in 25 ml H<sub>2</sub>O to give  
dl-.alpha.-5-tetrazolyl-6-chlorotryptamine. Two other compds. were  
similarly prepd.